Textbook Alignment to the Utah Core – 3rd Grade Science

This alignment has been completed using an "I	Independent Alignment Vendor" fron <mark>indvendor.html</mark> .) Yes <u> </u>		
Name of Company and Individual Conducting Alignment: S			
A "Credential Sheet" has been completed on the above compa	ny/evaluator and is (Please check one o	f the following):	
☐ On record with the USOE.			
✓ The "Credential Sheet" is attached to this alignment.			
Instructional Materials Evaluation Criteria (name and grade o	of the core document used to align):	3rd Grade Science Core Curr	iculum
Title: _Science: A Closer Look, Gr. 3 ©2008	ISBN#:	978-0-02-284136-2	
Publisher:Macmillan/McGraw-Hill			
Overall percentage of coverage in the Student Edition (SE) and	Teacher Edition (TE) of the Utah S	tate Core Curriculum:9	<u>%</u>
Overall percentage of coverage in ancillary materials of the Uta	ah Core Curriculum:	0/₀	
STANDARD I: Students will understand that the shape of Earth pearance of the sun and moon moving through the sky.	and the moon are spherical and tha	nt Earth rotates on its axis to p	roduce
Percentage of coverage in the <i>student and teacher edition</i> for Standard I:	Percentage of coverage not in stud the <i>ancillary material</i> for Standard		ered in
	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or

Овје	CTIVES & INDICATORS			ancillaries 🗸
Objec	tive 1.1: Describe the appearance of Earth and the moon.			
		SE/EE 205 220 222		
a.	Describe the shape of Earth and the moon as spherical.	SE/TE: 305, 328, 332		
b.	Explain that the sun is the source of light that lights the moon.	SE/TE: 329		
c.	List the differences in the physical appearance of Earth	SE/TE: 318, 319, 327, 328-329, 331,		
	and the moon as viewed from space.	334-335		
Objec	tive 1.2: Describe the movement of earth and the moon			
_	e apparent movement of other bodies through the sky.			
	Describe the motions of Earth (i.e., the rotation	SE/FE: 215, 210, 220, 221, 222		
a.	[spinning] of Earth on its axis, the revolution [orbit] of	SE/TE: 315, 319, 320-321, 323, 326-335, 334-335, 350		
	Earth around the sun).	320-333, 334-333, 330		
b.	Use a chart to show that the moon orbits Earth	SE/TE: 330		
	approximately every 28 days.			
c.	Use a model of Earth to demonstrate that Earth rotates	SE/TE: 319		
	on its axis once every 24 hours to produce the night and			
	day cycle.			
d.	Use a model to demonstrate why it seems to a person on	SE/TE: 334-335, 337, 338-339		
	Earth that the sun, planets, and stars appear to move			
	across the sky.			
STANI	OARD II: Students will understand that organisms depen	d on living and nonliving things withi	n their environment.	
		T		
Perce	ntage of coverage in the student and teacher edition for	Percentage of coverage not in stude	nt or teacher edition, but cov	ered in
	ard II:%	the ancillary material for Standard	· · · · · · · · · · · · · · · · · · ·	
				Not covered
Овје	ctives & Indicators	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	in TE, SE or
Ohiec	tive 2.1: Classify living and nonliving things in an	, , , , , ,	, ,,,	ancillaries 🗸
	nment.			
a.	Identify characteristics of living things (i.e., growth,	SE/TE: 20, 22-23, 24-25, 26, 27, 30-		
	movement, reproduction).	39, 40-41, 42-49, 50-51, 64-65		

b.	Identify characteristics of nonliving things.	SE/TE: 20, 21, 23, 50-51, 52-61, 64-		
		65, 109		
c.	Classify living and nonliving things in an environment.	SE/TE: 20, 21, 23, 50-51, 52-61, 64-		
011		65, 109		
	tive 2.2: Describe the interactions between living and			
nonliv	ing things in a small environment.			
a.	Identify living and nonliving things in a small	*See related content—		
	environment (e.g., terrarium, aquarium, flowerbed)	SE/TE: 20, 21, 22, 23, 24, 25, 26,		
	composed of living and nonliving things.	27, 31, 35, 64-65, 151		
b.	Predict the effects of changes in the environment (e.g.,	*See related content—		
	temperature, light, moisture) on a living organism.	SE/TE: 20, 21, 22, 23, 24, 64-65,		
		148-157, 160-169		
c.	Observe and record the effect of changes (e.g.,	*See related content—		
	temperature, amount of water, light) upon the living	SE/TE: 20, 21, 22, 23, 24, 64-65,		
	organisms and nonliving things in a small-scale	148-157, 160-169		
	environment.			
d.	Compare a small-scale environment to a larger	*See related content—		
	environment (e.g., aquarium to a pond, terrarium to a	SE/TE: 31, 35, 40-41, 148-157, 160-		
	forest).	169		
e.	Pose a question about the interaction between living and	SE/TE: 109		
	nonliving things in the environment that could be			
	investigated by observation.			
STANI	OARD III: Students will understand the relationship betw	een the force applied to an object and	d resulting motion of the obje	ect.
	ntage of coverage in the student and teacher edition for	Percentage of coverage not in stude		ered in
Standard III: 88 %		the <i>ancillary material</i> for Standard	III:%	
		Coverage in Student Edition(SE) and	Coverage in Ancillary Material	Not covered in TE, SE or
OBJEC	CTIVES & INDICATORS	Teacher Edition (TE) (pg #'s, etc.)	(titles, pg #'s, etc.)	ancillaries 🗸
Objec	tive 3.1: Demonstrate how forces cause changes in speed			
or dire	ection of objects.			
a.	Show that objects at rest will not move unless a force is	SE/TE: 431, 436-437, 439, 474		

	applied to them.			
b.	Compare the forces of pushing and pulling.	SE/TE: 443, 444, 474		
c.	Investigate how forces applied through simple machines	SE/TE: 427, 431, 460-461, 462-469,	Science Leveled Readers:	
	affect the direction and /or amount of resulting force.	470, 471, 474-475	Machines That Build	
	tive 3.2: Demonstrate that the greater the force applied			
to an o	object, the greater the change in speed or direction of the			
object				
a.	Predict and observe what happens when a force is	SE/TE: 427, 428-429, 430, 431,		
	applied to an object (e.g., wind, flowing water).	440-441, 442, 443, 444-445, 446,		
		447, 448, 462, 463, 464-469, 470,		
		471, 474		
b.	Compare and chart the relative effects of a force of the	*See related content—		
	same strength on objects of different weight (e.g., the	SE/TE: 427, 431, 444-445, 446, 447,		
	breeze from a fan will move a piece of paper, but may	448, 452-459		
	not move a piece of cardboard). Compare the relative effects of forces of different	SE/TE: 427 421 444 445 446 447		
c.	1	SE/TE: 427, 431, 444-445, 446, 447,		
	strengths on an object (e.g., strong wind affects and object differently than a breeze).	448, 452-459		
4	Conduct a simple investigation to show what happens	*See related content—		
d.	when objects of various weights collide with one another	SE/TE: 446, 458, 459		
	(e.g., marbles, balls).	SE/1E: 440, 438, 439		
e.	Show how these concepts apply to various activities	SE/TE: 427, 432, 436, 437, 442,		
е.	(e.g., batting a ball, kicking a ball, hitting a golf ball with	445, 446, 448, 453, 454-458, 460-		
	a golf club) in terms of force, motion, speed, direction,	461, 462-469, 470, 471		
	and distance (e.g., slow, fast, hit hard, hit soft).	401, 402-407, 470, 471		
STANI	DARD IV: Students will understand that objects near Ear	 th are nulled toward Earth by gravit	v	
SIAM	2.1. Students will understand that objects hear Lar	and punctional distance by gravit	<i>J</i> •	
Perce	ntage of coverage in the student and teacher edition for	Percentage of coverage not in stude	nt or teacher edition, but cov	ered in
Standard IV: 100 %		the ancillary material for Standard		
		-		
		Coverage in Student Edition(SE) and	Coverage in Ancillary Material	Not covered
OBJE	CTIVES & INDICATORS	Teacher Edition (TE) (pg #'s, etc.)	(titles, pg #'s, etc.)	in TE, SE or ancillaries ✓
Objec	etive 4.1: Demonstrate that gravity is a force.			Sire vival vos
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a.	Demonstrate that a force is required to overcome gravity.	SE/TE: 216, 361, 378, 431, 446,	
		447, 449, 454, R6	
b.	Use measurement to demonstrate that heavier objects	SE/TE: 216, 361, 378, 431, 446,	
	require more force than lighter ones to overcome gravity.	447, 449, 454, R6	
Objec	tive 4.2: Describe the effects of gravity on the motion of		
an obj	ect.		
a.	Compare how the motion of an object rolling up or down	SE/TE: 216, 361, 378, 379, 431,	
	a hill changes with the incline of the hill.	443, 445, 446, 447, 454, R6	
b.	Observe, record, and compare the effect of gravity on	SE/TE: 216, 361, 378, 379, 431,	
	several objects in motion (e.g., a thrown ball and a	443, 445, 446, 447, 454, R6	
	dropped ball falling to Earth).		
c.	Pose questions about gravity and forces.	SE/TE: 216, 361, 378, 379, 431,	
		447, 449, 454, R6	
STANDARD V: Students will understand that the sun is the main source of heat and light for things living on Earth. They will also			

STANDARD V: Students will understand that the sun is the main source of heat and light for things living on Earth. They will also understand that the motion of rubbing objects together may produce heat.

	ntage of coverage in the <i>student and teacher edition</i> for ard V:%	Percentage of coverage not in student or teacher edition, but covered in the ancillary material for Standard V:		
Овје	ctives & Indicators	Coverage in Student Edition(SE) and Teacher Edition (TE) (pg #'s, etc.)	Coverage in Ancillary Material (titles, pg #'s, etc.)	Not covered in TE, SE or ancillaries ✓
	etive 5.1: Provide evidence showing that the sun is the e of heat and light for Earth.			
a.	Compare temperatures in sunny and shady places.	SE/TE: 281, 316, 317, 318, 321, 322, 323, 480-481, 482-483, 484, 485, R6		
b.	Observe and report how sunlight affects people and animals by providing heat and light.	SE/TE: 25, 32, 36, 257, 316, 317, - 323, 318-319, 322, 323, 324, 325, 480-481, 485, 500-501, 504-505		
c.	Provide examples of how sunlight affects people and animals by providing heat and light.	SE/TE: 25, 32, 36, 257, 316, 317, - 323, 318-319, 322, 323, 324, 325,		

		480-481, 485, 500-501, 504-505	
d.	Identify and discuss as a class some misconceptions	SE/TE: 254, 281, 322, 479, 480-481,	
	about heat sources (e.g., clothes do not produce heat, ice	482-483, 485	
	cubes do not give off cold).	,	
Objec	tive 5.2: Demonstrate that mechanical and electrical		
	nes produce heat and sometimes light.		
a.	Identify and classify mechanical and electrical sources of	SE/TE: 254, 281, 322, 420, 476,	
	heat.	477, 478-479, 480-481, 482-483,	
		484-485, 486-487, 514, 521	
b.	List examples of mechanical or electrical devices that	SE/TE: 322, 420, 476, 499, 500,	
	produce light.	501, 507, 508-509, 510, 511, 515,	
		516, 517, 518, 520, 521, 522	
c.	Predict, measure, and graph the temperature changes	SE/TE: 281, 316, 317, 318, 321,	
	produced by a variety of mechanical machines and	322, 323, 477, 480-481, 482-483,	
	electrical devices while they are operating.	484, 485	
Objec	etive 5.3: Demonstrate that heat may be produced when		
object	s are rubbed against one another.		
a.	Identify several examples of how rubbing one object	SE/TE: 448, 458, 479, 481	
	against another produces heat.		
b.	Compare relative differences in the amount of heat given	SE/TE: 448, 458, 479, 481	
	off or force required to move an object over		
	lubricated/non-lubricated surfaces and smooth/rough		
	surfaces (e.g., waterslide with and without water, hands		
	rubbing together with and without lotion).		